

WHAT IS CLAIMED IS:

1. A method of transforming an Artwork, comprising:

extracting data representing location based objects from a source file of said Artwork;

5 registering said extracted data in a first structured intermediate database;

transforming said registered data, according to stored instructions;

registering said transformed data in a second intermediate structured database, and

transforming said source file of said Artwork according to said transformed
10 data registered in said second intermediate database to create a target Artwork file.
2. The method according to claim 1, wherein said source files are one of draw-vector graphics programs such as Adobe Illustator (ai), Adobe Acrobat (pdf), Macromedia Freehand, Corel Draw (cdr).
- 15 3. The method according to claim 1, wherein said source files are described in one of Quark Xpress (qxd), Adobe Pagemaker (pm), Adobe Indesign (pdf) or Autodesk AutoCad (dwg; dxf) description file.
4. The method according to claim 1, wherein said source files are described in any page description language that attaches page
20 location to objects described in it.
5. The method according to claim 1, wherein said source files are rich text files described in great detail objects, their attributes and locations,

such as in the extended markup language (XML) and its derivatives and related formats.

6. The method according to claim 1, wherein said location based object is expressed in coordinates of a 2D representation medium.
- 5 7. The method according to claim 4, wherein said 2D representation is one of geographical map or technical drawing.
8. The method according to claim 1, wherein said location based object is characterized by its appearance, including geometric form, color, line style and print style. *What about preserving information about real*
10 *world entities that the object represents?*
9. The method according to claim 8, wherein said location based object is characterized by identification data including text and numbers.
10. The method according to claim 1, wherein said location based object is characterized by data calculated from its relationship to other objects
15 in the same source file.
11. The method according to claim 1, wherein said structured intermediate database is represented by a tabular structure, including a spreadsheet.
12. The method according to claim 1, wherein said structured intermediate
20 database is a tagged text file with sufficient details describing the object so that reconstructing the original file is possible.
13. The method according to claim 11, wherein said first intermediate database is a spreadsheet and the commands for transforming the objects are spreadsheet commands.

14. The method according to claim 13, wherein said spreadsheet manipulation commands are stored in additional related files.
15. The method according to claim 1, wherein transforming includes changing the text associated with an object, or its attributes, or its location on the page.
16. The method according to claim 1, wherein said first intermediate database includes additional data from at least one such database previously prepared from other source files.
17. The method according to claim 1, wherein said first intermediate database includes descriptive data of objects not extracted from said source file.
18. The method according to claim 1, wherein at least one of said objects was given an instruction to be subsequently omitted in said first intermediate database.
19. The method according to claim 1, wherein said transforming includes changing properties of said objects in the source file according to instructions included in said first intermediate database.
20. The method according to claim 1, wherein said transforming includes creating new objects in the source file where second intermediate database includes description of objects not extracted from said source file
21. The method according to claim 19, wherein for each object detailed in the second intermediate database a new object is created in the source file.

22. The method according to claim 21, wherein said objects are arranged in layers, or not arranged in layers, or rearranged in layers, where new objects are put in new layers or put in the original layers.
23. The method according to claim 1, wherein the data in said first
5 intermediate database can be manually edited by the user including entering new values in lieu of present values in the file.
24. The method according to claims 23, 20 and claim 19, wherein said manual changes can be applied to the original extracted version of said database or a manipulated version.
- 10 25. The method according to claim 24, claim 13 and 14 wherein said spreadsheet manipulations can be applied to the original extracted version of said database or a manipulated version.
26. The method according to all previous claims wherein objects are added or changed by directly changing said source file.
- 15 27. The method according to all previous claims wherein objects are added or changed by causing the originating program to add or change said objects, using software additions to said originating software.
28. The method according to claim 27, wherein the changes are done manually by an operator that activates said software additions.
- 20 29. The method according to claim 27, wherein the changes are done automatically by activating said software additions.
30. The method according to claim 1, wherein the target file is the same type as the source file.

31. The method according to claim 1, wherein the target file is one of those listed in claims 2-5 but different than the source file.

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